

# Edward Heeney

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## Education

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**Trinity College Dublin**, Theoretical physics Sept 2023 – Present

- Expected degree grade: 2 1
- **Coursework:** *Theoretical Physics Concepts:* Quantum Mechanics, Statistical Physics  
*Mathematical Concepts:* ODE's, Real and Complex analysis, Calculus

**Trinity College Dublin**, Physical Sciences Sept 2021 – May 2023

- Completed 2nd year then transferred course

## Projects

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**Hackathon 2024** <https://github.com/Hackathon2024>

- Was part of a team which competed in the 2024 TPSA Hackathon resulting in a third place finish
- We explored the changing population density in the Republic of Ireland using mathematical methods and computer algorithms
- I gained knowledge of using the latex slide template of Beamer and increased my python and team working skills.

**Nuclear Fusion Poster Project** [github.com/poster project2023](https://github.com/posterproject2023)

- While in the second year of my theoretical physics degree i completed a group poster project on nuclear fusion in star formation. My specific research was focused on the proton-proton chain reaction
- Through completing this project I developed physics concepts as well as how to format a poster on latex

## Work Experience

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**Guitar Teacher**, Self Employed June 2024 Present

- Teaching beginner concepts of music theory for improvement of students musical background
- Curating individualised courses for each student resulting better student experience and improved learning

**Sales Associate**, TJ O'Mahony's – Walkinstown, Dublin, Ireland June 2024 - August 2024

- Operated paint mixing equipment for trade and non-trade customers
- Created promotional and directive flyers on Canva
- Operated tills and created invoices for customers
- Learned product specifications to best advise customers in their purchases

## Extracurriculars

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### Volunteering

**TYPE: Transition Year  
Student Poster Project**

- I was a volunteer mentor for TYPE, where I mentored a small group of students in Transition Year at Trinity College Dublin. I helped the students work together to research aspects of physics they had not seen before and guided them in effectively communicating what they had learned in poster format, which they presented at the end of the week.

## Societies/Student Groups

### Theoretical Physics Student Association of Ireland (TPSA): Outreach Officer

- As outreach officer my job is to promote theoretical physics and the student association itself throughout the college, as well as outside of it, as one of our goals is to foster a stronger theoretical physics community throughout the island of Ireland as well.
- As well as being outreach officer I attend weekly seminars where students work together on problems relating to maths and physics. Being part of this society helps foster a community for people interested in theoretical physics on the college campus.

### Physics Society: 2nd Year Rep

- I was the second-year representative for the Physics Society. My role was to engage students in my year with the society by informing them of events such as talks by professors and student balls hosted by the society.

I have also previously been a member of the DU Space Society as well as the DU Mathematics society

## Technologies

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**Languages:** Python

**Other:** Latex, Microsoft Word, Microsoft excel

## Other Interests

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**Sports:** Member of TCD 3v3 basketball team, Member of TCD 5-a-side soccer team

**Music:** Acoustic guitar, grade 4 classical guitar, as well as teaching guitar

**Languages:** I have previously studied French in school, and am currently learning Portuguese and Italian, as well as improving my Irish.

**Reading:** I am an avid reader and enjoy reading works of both fiction and non-fiction